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Total Number of Pages in This Submission

139

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| Application Number | 09/677,752 |
| Filing Date | 10/03/2000 |
| First Named Inventor | W. James Jackson, et al. |
| Art Unit | 1645 |
| Examiner Name | Ford, Vanessa L. |
| Attorney Docket Number | 087-999 |

ENCLOSURES (Check all that apply)

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| <input type="checkbox"/> Response to Missing Parts/ Incomplete Application | | |
| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | | |
| Remarks | | |

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name John M. Naber (Reg. No. 46,487)

Signature

Date

June 3, 2004

CERTIFICATE OF TRANSMISSION/MAILING

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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: W. James Jackson, Confirmation No.: 5261
et al

Serial No. 09/677,752 Art Unit: 1645

Filed: 10/03/2000 Examiner: Ford, Vanessa L.

For: *Chlamydia Protein, Gene Sequence and Uses Thereof* Atty Docket No.: 087-999

Commissioner for Patents
P. O. Box 1450
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FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

In accordance with the duty of disclosure imposed by 37 C.F.R. § 1.56 to inform the Patent and Trademark Office of all references coming to the attention of each individual associated with the filing or prosecution of the subject application, which are or may be material to the patentability of any claim of the application, Attorneys for Applicant hereby direct the Examiner's attention to the References CE - CQ listed on the attached revised PTO-1449 form.

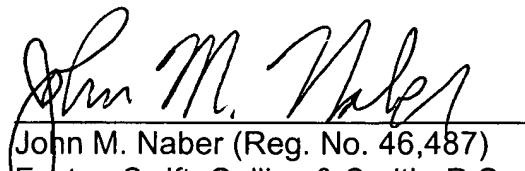
Applicant respectfully requests that the Examiner review the foregoing references and that the references be made of record in the file history of the application.

As this statement is being submitted under 37 C.F.R. § 1.97(b)(4), before the mailing of a first Office Action after the filling of a request for continued examination under § 1.114.

Respectfully submitted,

Dated: 3 June 2004

By:



John M. Naber (Reg. No. 46,487)
Foster, Swift, Collins & Smith, P.C.
313 South Washington Square
Lansing, MI 48933

(517) 371-8100 telephone/(517)371-8200 fax

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|---|--|--|------------------------|----------------------------------|-------------------------------|
| Substitute Form PTO-1449 (Modified) | | U.S. Department of Commerce Patent and Trademark Office | | Attorney's Docket No. 087-999 | Application No. 09/677,752 |
| Information Disclosure Statement by Applicant (Use several sheets if necessary) | | Applicant | | W. James Jackson | |
| | | Filing Date 10-03-2000 | Group Art Unit 1645 | | |
| 37 CFR §1.98(b) | | | | | |

| U.S. Patent Documents | | | | | | | |
|-----------------------|-----------|---------------|------------|---------------|-------|----------|----------------------------|
| Examiner Initial | Desig. ID | Patent Number | Issue Date | Patentee | Class | Subclass | Filing Date If Appropriate |
| | CE | US 5,965,141 | 10-12-1999 | Briles et al | | | |
| | CF | US 5,976,544 | 11-02-1999 | Charles et al | | | |

| Other Documents (include Author, Title, Date, and Place of Publication) | | |
|---|-----------|--|
| Examiner Initial | Desig. ID | Document |
| | CG | Deslauriers, et al, Identification of Murine Protective Epitopes on the <i>Porphyromonas gingivalis</i> Fimbrillin Molecule, Infection and Immunity, 64:434 (1996) |
| | CH | Ji, et al, Intranasal Immunization with C5a Peptidase Prevents Nasopharyngeal Colonization of Mice by the Group A <i>Streptococcus</i> , Infection and Immunity, 65:2080 (1997) |
| | CI | Nilsson, et al, Vaccination with a Recombinant Fragment of Collagen Adhesin Provides Protection against <i>Staphylococcus Aureus</i> -mediated Septic Death, J. Clin. Invest., 101:2640 (1998) |
| | CJ | Sexton, et al, Vaccination of Sheep Against <i>Fasciola Hepatica</i> with Glutathione S-transferase. Identification and Mapping of Antibody Epitopes on a Three-Dimensional Model of the Antigen, J. Immunology, 152:1861 (1994) |
| | CK | Tanzer, et al, Characterization of Outer Membrane Proteins in <i>Chlamydia trachomatis</i> LGV Serovar L2, J. Bacteriology, 183:2686 (2001) |
| | CL | Exner, et al, Protection Elicited by Native Outer Membrane Protein Oms66 (p66) against Host-Adapted <i>Borrelia burgdorferi</i> : Conformational Nature of Bactericidal Epitopes, Infection and Immunity, 68:2647 (2000) |
| | CM | Grimwood, et al, Expression of <i>Chlamydia pneumoniae</i> Polymorphic Membrane Protein Family Genes, Infection and Immunity, 69:2383 (2001) |
| | CN | Christiansen, et al, Potential Relevance of <i>Chlamydia pneumoniae</i> Surface Proteins to an Effective Vaccine, J. Infectious Diseases, 181(Suppl 3):S528 (2000) |
| | CO | Stothard, et al, Polymorphic Membrane Protein H Has Evolved in Parallel with the Three Disease-Causing Groups of <i>Chlamydia trachomatis</i> , Infection and Immunity, 71:1200 (2003) |
| | CP | Mygind, et al, Membrane Proteins PmpG and PmpH are Major Constituents of <i>Chlamydia trachomatis</i> L2 Outer Membrane Complex, FEMS Microbiol Lett., 186(2):163 (2000) |
| | CQ | Hou, et al, Conformational Epitopes Recognized by Protective Anti-Neisserial Surface Protein A Antibodies, Infection and Immunity, 71(12):6844 (2003) |

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|--------------------|------------|
| Examiner Signature | Considered |
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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.